AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A flip chip package comprising:

a semiconductor chip having a first side and a second side opposing the first side:

a circuit substrate electrically connected to the first side of the semiconductor chip;

a protective cap disposed over the second side of the semiconductor chip, the protective cap including at least one portion extending beyond an edge of the semiconductor chip, the portion including a groove have a fan-shaped cross-section such that a part of the groove further from the second side of the semiconductor chip is wider in cross-section than a part of the groove closer to the second side of the semiconductor chip; and

a molding resin layer sealing the electrical connection between the semiconductor chip and the circuit substrate and filling the fan-shaped groove in the cap.

2. (Original) The flip chip package of claim 1, wherein the protective cap includes metal.

- 3. (Original) The flip chip package of claim 2, wherein the protective cap is made of one selected from the group consisting of copper (Cu), copper alloy, aluminum (Al), and aluminum alloy.
- 4. (Original) The flip chip package of claim 1, further comprising:
 a plurality of solder bumps to electrically connect the semiconductor chip
 and the circuit substrate.
 - 5. (Canceled)
- 6. (Withdrawn) The flip chip package of claim 1, further comprising: a plurality of bonding wires to electrically connect the semiconductor chip and the circuit substrate.
 - 7. (Canceled)
- 8. (Original) The flip chip package of claim 1, further comprising: an adhesion layer disposed between the second side of the semiconductor chip and the protective cap.

Claims 9-15. (Canceled)

16. (Original) The flip chip package of claim 1, further comprising:

solder balls formed on a surface of the circuit substrate opposite a surface to which the circuit substrate is electrically connected to the semiconductor chip.

Claims 17-30. (Canceled)

31. (New) The flip chip package of claim 1, wherein

the protective cap includes more than one portion extending beyond an edge of the semiconductor chip, and each portion includes a groove having a fan-shaped cross-section; and

the molding resin layer fills each groove.

- 32. (New) The flip chip package of claim 1, wherein the groove is formed through the protective cap.
- 33. (New) The flip chip package of claim 1, wherein the groove is not formed through the protective cap.